

The First Scientific Workshop on Evaluation  
of the State of Acid Deposition in East Asia  
1 October 2004, Niigata, Japan

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**Workshop Summary**

1. The First Scientific Workshop on Evaluation of the State of Acid Deposition in East Asia was held in Niigata, Japan on 1 October 2004. The Acid Deposition and Oxidant Research Center (ADORC) serving as the Network Center (NC) for Acid Deposition Monitoring Network in East Asia (EANET) organized the workshop, in collaboration with United Nations Environment Programme Regional Resource Centre for Asia and the Pacific (UNEP RRC.AP) serving as the Secretariat for EANET, and in cooperation with the Ministry of Foreign Affairs and the Ministry of the Environment of Japan, Niigata Prefecture and Niigata City.

**I. Attendance**

2. The Workshop was attended by approximately thirty participants and observers from eleven participating countries, namely, Cambodia, China, Indonesia, Japan, Lao P.D.R, Malaysia, Mongolia, Philippines, Russia, Thailand and Viet Nam. The list of the participants of the workshop is attached as Annex I.

**II. Objectives of the workshop**

3. The objectives of the workshop were:
  - to review the existed methodologies for assessment acid deposition with regard to EANET region;
  - to consider case studies on assessment of acid deposition in East Asia conducted both internationally and in the participating countries;
  - to prepare draft content and format of the periodic report; and
  - to work out organizing measures regarding further process including the plan for preparing of the periodic report.

The workshop was supposed as the first step for initiation the process of the preparation of the first periodic report on the state of acid deposition in East Asia. The discussions were devoted to improvement of proposal how to develop the first periodic report which will be considered at the Fourth Session of Scientific Advisory Committee (SAC4) to be held in November 2004.

### **III. Conduct of the Workshop**

4. The workshop commenced with opening address by Dr. Jiang Wei, the Secretariat of EANET, UNEP RRC.AP followed by the introduction of the Meeting organization by Dr. Tsumugu Totsuka, Director General of ADORC.
5. The workshop elected Professor Hiroshi Hara, Field Science Center, Tokyo University of Agriculture and Technology as the chairperson.
6. The workshop consisted of technical and discussion sessions. During the technical sessions presentations were made by NC, participants and resource persons. NC presented "Review of the existed methodologies for assessment of acid deposition with regards to EANET region" which included data and information obtained in the regular phase activities of EANET as well as methodologies for data evaluation applied for assessment of atmospheric pollution by other monitoring programs. Five participants and 2 resource persons presented their contributions for agenda item "Overview of case studies on assessment of acid deposition in East Asia conducted both internationally and in participating countries".
7. During the discussion session, participants discussed the contents of the first periodic report and organizing measures of report preparation proposed by NC.

### **IV. Major conclusions and recommendations deriving from discussions.**

8. The preparation of the periodic report on the state of acid deposition in East Asia is to be commenced as one of the important activities to achieve the objectives of the EANET. The monitoring data collected during the regular phase of EANET are available for evaluation and producing the first assessment results regarding acid deposition problem in East Asia.

#### **(i) On data and methodologies for evaluation**

9. The developed methodologies for evaluation of monitoring data are prepared to be applied for evaluation of data series and calculation of acid substances loads. The experience of similar studies of other monitoring programs could be used for data processing and presentation including meteorological analysis, quantification of effects, mapping, etc.
10. During the discussion on evaluation methodologies some modeling applications were proposed as the tools for data interpolation and for analysis of potential effect of acid deposition as well as for identified areas where sharp environmental changes could occur. During the data

evaluation the short-term project for validation of suitable model could be conducted.

11. The possibility to use additional monitoring data available by participating countries through national programs and within international cooperative initiatives should be considered for the first periodic report as concluded from presentations of participants. The countries' experience in preparation of national reports on environmental assessment should be taken into account. The list of such national publications could be prepared as the references as well as international reports and important papers.

**(ii) On content of the first periodic report**

12. **Content and draft format of the first periodic report:** In general format and contents was agreed by participants and resource persons, however, coverage of items and fields could be more clarified later. Basically the report will be prepared using the data obtained through EANET monitoring on regular phase activities but more concern on other data or information is useful to use them for review. It was suggested that the assessment report should be prepared considering needs of scientific outcome for policy makers and necessity to promote public awareness to such environmental problems. The executive summary could serve for these purposes.
13. **Period of monitoring data to be analyzed:** The first periodic report should cover the regular phase of EANET activities and the accumulated data of period from 2001 to 2004 should be taken in use.
14. **The title of the report** should be established and endorsed as the valid name by SAC4 to avoid any confusion during the number of discussion within EANET.

**(iii) On organizing measures and procedures for preparing of the report**

15. Concerning **responsibility of report preparation** it is supported that the preparation of the periodic report on the state of acid deposition in East Asia should be clearly mentioned in developing Work Program and Budget in 2005 for EANET as the activity of Scientific Advisory Committee (SAC).
16. **Organizing measures and procedures for the preparation** of the report were discussed based on proposal of NC and some improvements were suggested to be included for documents :

- i. Editorial board for the preparation of the periodic report (about 5 leaders) could consist of not only SAC members but other resource persons taking into account a scope of works to be elected at SAC4.
- ii. Two working groups of closer fields of studies within Working team should be organized by the editorial board to prepare the text of report chapters as follows.
  - working group on Atmospheric issues (WG-Air );
  - working group on Ecological impact issues (WG-Eco);
- iii. The two working groups have joint sessions for comprehensive interpretations and conclusions as well as parallel sessions.
- iv. The number of group members could be flexible. The expiration of the term of these WGs will be decided by editorial board and possible reorganization of working team should be foreseen for synthesis and overall analysis.
- v. Editorial board will be in charge of managing a process as well as research topics of review and comprehensive analysis.
- vi. Although meetings “face-to-face” are needed for better coordination it was commented that the number of meeting should be flexible . And it was suggested to consider the use of electronic media and communication tools instead of meeting because of limited budget.

17. **Workshop:** The scientific workshops will be held to discuss the conducted studies, to review and make conclusion on developed materials and drafts of report. It is proposed that next workshop would be held back-to-back with the Fifth Session of SAC (SAC5).

**(iv) On time period for preparing of the report**

18. **Schedule for report preparation:** The preliminary report will be reviewed at SAC5 in 2005 and the final report will be presented at SAC6 in 2006. This time schedule could be revised based on the discussion at SAC4 and the Sixth Session of the Intergovernmental Meeting (IG6).

19. The more intensive exchange of information and results of related case studies was expressed to be useful for development of the first periodic report. Participating countries were suggested to send their relevant report, printed materials, copies of papers, etc to NC for further dissemination among members of editorial board, working team and other contributors.

20. The discussed documents should be revised with improvement of proposal how to develop the first periodic report and submitted to SAC4 for consideration.